

Air Conditioning Training Systems

Educational Training Equipment for the 21st Century

Bulletin 233L

H-ACD-1A Air Conditioning Demonstrator



MODEL H-ACD-1A-CDL
(Shown with H-RST-DMB Option)
Dimensions: 65"H x 87-1/2"W x 31"D
Shipping Weight: 1,275 lbs

Purpose

The Hampden **MODEL H-ACD-1A** Air Conditioning Demonstrator has been designed to teach the principles of thermo-dynamics as related to the field of air conditioning and refrigeration. The unit comes complete with operating instructions, experiment and teacher's manuals. Areas covered include air flow, inlet heating and humidification, air cooling, and air reheating. It consists of eight basic segments:

- | | |
|---------------------|---------------------|
| 1. Blower | 5. Refrigeration |
| 2. Pre-Heater | 6. Re-Heater |
| 3. Vaporizer | 7. Observation Port |
| 4. Observation Port | 8. Manometer |

This unit is designed to demonstrate complete energy balance with provisions to inject heat, water vapor, heat extraction, and changes in air flow. The electrical controls are conveniently located on an incline faced panel with nomenclature silk-screened in a contrasting color.

This demonstrator is self-contained and requires only 220V AC, 1Ø, 60Hz.

Refrigerant: R-134a (other refrigerants available)

Options

◆The Hampden **MODEL H-ACD-1A-CDL** Air Conditioning Demonstrator with Computer Data Logging package includes the following:

- 1 - Air Velocity Transmitter
 - 2 - Pressure Transmitters
 - 12 - Type "T" Thermocouples
- Interface Modules and Windows® Software

◆The Hampden **Model H-ACD-1A-FP** Electrical Fault Package

◆The Hampden **Model H-RST-DMB** Digital Manifold with Bluetooth

Options must be specified at time of original order

All Hampden HVAC equipment is charged with non-CFC refrigerant, as available

All Hampden units are available for operation at any voltage or frequency



Hampden
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